Marine Diesel Engine for Leisure Craft and Commercial Craft Applications



Naturally Aspirated 4 cylinder

MaximumPower: 86 HP (64 kW) @ 2400 RPM

The Perkins Sabre M92B engine is the successor to the very successful M92. It has been inspired by and led by the future requirements of our customers to meet the needs of the marine industry.

Built to the most demanding standards, the M92B engine meets all the requirements of both EC Stage 2 and USA EPA Tier 2 off-highway emissions legislation from 2004 and brings significant improvements over the M92 highly successful predecessor.

The M92B is a quiet 4.4 litre unit delivering improved performance and reduced operating costs in an efficient package ideal for a range of marine applications.

Class leading performance

• The M92B provides an increase in torque capability over its highly successful predecessor. Improvements have also been made to the torque curve of the engine to give up to 12% more low speed torque with torque back up, increasing to 26%.

Cleaner and quieter

• The M92B operates with smoke levels barely visible to the naked eye. Improvements of up to 3dBA have also been made to bare engine noise over its predecessor. Concentrating on reduced noise levels throughout the complete operating range of the engine from idle through to full load rated speed. This has been achieved through numerous individual product developements, including a new cylinder block design and developements to the front end gear train.

Quality by design

Product design and manufacturing process improvements have been implemented from
the concept to enhance both engine reliability and durability. Perkins Sabre have also
taken the opportunity to improve the 'design for assembly' through simplified subassemblies and improved joint and sealing technologies.

Ease of installation

• The changeover for existing M90/M92 to EC Stage 2 and USA EPA Tier 2 product is made easy through the carryover of existing envelope size and mounting points therefore minimising installation issues in repowering projects.

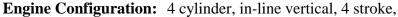
Lower operating costs

• Service intervals are now set at 500 hours as standard and the warranty period has been extended to 2 years with 3 years on majors. In addition, fuel economy has improved by as much as 6%.

Product support

Total worldwide service continues to be provided through a network of 4000 distributors
and dealers. This is enhanced by the introduction of TIPSS (The Integrated Parts and
Service System) which represents a step change in diesel engine support. TIPSS enables
customers to electronically specify and order parts as well as service electronic and
mechanical engine with online guides and service tools.

Specifications - M92B



water cooled

Aspiration: Naturally aspirated

Bore / Stroke: 105 mm (4.13 in) x 127 mm (5.00 in)

Displacement: 4.4 litre (269 cu.in.)

Combustion system: Direct injection

Compression ratio: 18.23:1

Engine Rotation: Anti-clockwise viewed from rear.

Fuel Injection Delphi rotary with electric stop.

Equipment:

Continuous Engine 20 ° front up

Operating Angles: 25 ° sideways (35° sideways

intermittent)

Power Take Off Available from front end drive (for drive

limitations refer to Sabre Engines Ltd).

Weight (Wet): • 423 kg (933 lb) engine only

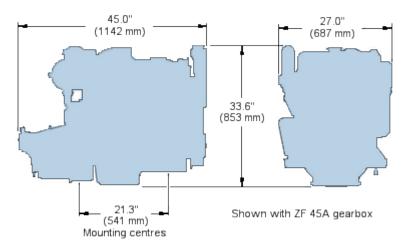
• 460 kg (1014 lb) with ZF 45A reverse

gearbox

• 504 kg (1111 lb) with Newage PRM500D reverse gearbox



Basic Dimensions



Performance - M92B

